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Rabbit Anti-MCM8 antibody

SL18269R

Product Name:	MCM8
Chinese Name:	微小染色体维持缺陷蛋白8抗体
Alias:	C20orf154; dJ967N21.5; DNA helicase MCM8; DNA replication licensing factor MCM8; MCM8; MCM8_HUMAN; MGC119522; MGC119523; MGC12866; MGC4816; Minichromosome maintenance 8; Minichromosome maintenance complex component 8; REC.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	93kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MCM8:301-400/840
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the mini-chromosome maintenance proteins is a key component of the pre-replication complex and may be

	involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein contains the central domain that is conserved among the mini-chromosome maintenance proteins. The encoded protein may interact with other mini-chromosome maintenance proteins and play a role in DNA replication. This gene may be associated with length of reproductive lifespan and menopause. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2013] **Function:** Component of the MCM8-MCM9 complex, a complex involved in homologous recombination repair following DNA interstrand cross-links and plays a key role during gametogenesis. The MCM8-MCM9 complex probably acts as a hexameric helicase downstream of the Fanconi anemia proteins BRCA2 and RAD51 and is required to process aberrant forks into homologous recombination substrates and to orchestrate homologous recombination with resection, fork stabilization and fork restart. May also play a non-essential for DNA replication: may be involved in the activation of the prereplicative complex (pre-RC) during G(1) phase by recruiting CDC6 to the origin recognition complex (ORC). Binds chromatin throughout the cell cycle. **Subcellular Location:** Nucleus. Localizes to nuclear foci and colocalizes with RAD51. **Tissue Specificity:** Highest levels in placenta, lung and pancreas. Low levels in skeletal muscle and kidney. Expressed in various tumors with highest levels in colon and lung cancers. **Similarity:** Belongs to the MCM family. Contains 1 MCM domain. **SWISS:** Q9UJA3 **Gene ID:** 84515 **Database links:** Entrez Gene: 421314 Chicken Entrez Gene: 507507 Cow Entrez Gene: 477163 Dog Entrez Gene: 100065561 Horse

	Entrez Gene: 84515 Human Entrez Gene: 66634 Mouse Entrez Gene: 296178 Rat Omim: 608187 Human SwissProt: Q9UJA3 Human SwissProt: Q9CWV1 Mouse SwissProt: D3ZVK1 Rat Unigene: 597484 Human Unigene: 157070 Mouse Unigene: 70183 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.